**Exercise 1 - Spring Core – Load Country from Spring Configuration XML**

**country.xml**

<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"

       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

       xsi:schemaLocation="http://www.springframework.org/schema/beans

           https://www.springframework.org/schema/beans/spring-beans.xsd">

    <bean id="country" class="com.cognizant.spring\_learn.Country">

        <property name="code" value="IN" />

        <property name="name" value="India" />

    </bean>

</beans>

**pom.xml**

<project xmlns="http://maven.apache.org/POM/4.0.0"

         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0

                             https://maven.apache.org/xsd/maven-4.0.0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <groupId>com.cognizant</groupId>

  <artifactId>spring-learn</artifactId>

  <version>0.0.1-SNAPSHOT</version>

  <packaging>jar</packaging>

  <parent>

    <groupId>org.springframework.boot</groupId>

    <artifactId>spring-boot-starter-parent</artifactId>

    <version>3.1.3</version>

    <relativePath/>

  </parent>

  <properties>

    <java.version>17</java.version>

  </properties>

  <dependencies>

    <dependency>

      <groupId>org.springframework.boot</groupId>

      <artifactId>spring-boot-starter-web</artifactId>

    </dependency>

    <dependency>

      <groupId>org.springframework</groupId>

      <artifactId>spring-context</artifactId>

    </dependency>

    <dependency>

      <groupId>org.slf4j</groupId>

      <artifactId>slf4j-api</artifactId>

    </dependency>

    <dependency>

      <groupId>org.springframework.boot</groupId>

      <artifactId>spring-boot-devtools</artifactId>

      <scope>runtime</scope>

    </dependency>

    <dependency>

      <groupId>org.springframework.boot</groupId>

      <artifactId>spring-boot-starter-test</artifactId>

      <scope>test</scope>

    </dependency>

  </dependencies>

  <build>

    <plugins>

      <plugin>

        <groupId>org.springframework.boot</groupId>

        <artifactId>spring-boot-maven-plugin</artifactId>

      </plugin>

    </plugins>

  </build>

</project>

**country.java**

package com.cognizant.spring\_learn;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class Country {

    private static final Logger LOGGER = LoggerFactory.getLogger(Country.class);

    private String code;

    private String name;

    public Country() {

        LOGGER.debug("Inside Country Constructor.");

    }

    public String getCode() {

        LOGGER.debug("Inside getCode");

        return code;

    }

    public void setCode(String code) {

        LOGGER.debug("Inside setCode");

        this.code = code;

    }

    public String getName() {

        LOGGER.debug("Inside getName");

        return name;

    }

    public void setName(String name) {

        LOGGER.debug("Inside setName");

        this.name = name;

    }

    @Override

    public String toString() {

        return "Country{" +

                "code='" + code + '\'' +

                ", name='" + name + '\'' +

                '}';

    }

}

**SpringLearnApplication.java**

package com.cognizant.spring\_learn;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.boot.SpringApplication;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Date;

@SpringBootApplication

public class SpringLearnApplication {

    private static final Logger LOGGER = LoggerFactory.getLogger(SpringLearnApplication.class);

    public static void main(String[] args) {

        LOGGER.info("START");

        SpringApplication.run(SpringLearnApplication.class, args);

        displayDate();

        displayCountry();

        LOGGER.info("END");

    }

    public static void displayDate() {

        LOGGER.info("START");

        ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");

        SimpleDateFormat format = context.getBean("dateFormat", SimpleDateFormat.class);

        try {

            Date date = format.parse("31/12/2018");

            LOGGER.debug("Parsed Date: {}", date);

        } catch (ParseException e) {

            LOGGER.error("Date parsing failed", e);

        }

        LOGGER.info("END");

    }

    public static void displayCountry() {

        LOGGER.info("START");

        ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");

        Country country = context.getBean("country", Country.class);

        LOGGER.debug("Country : {}", country.toString());

        LOGGER.info("END");

    }

}

**Output:**

